

CHERNOBAY, V.T.; KOLESNIKOV, D.G.

Coumarins of Onidium dubium (Schkuhr.) Thell. Dokl.AN SSSR  
133 no.1:233-235 J1 '60. (MIRA 13:7)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevti-  
cheskiy institut. Predstavleno akademikom A.I. Oparinym.  
(COUMARIN) (ONIDIUM)

KOMISSARENKO, N.F.; CHERNOBAY, V.T.; KOLESHNIKOV, D.G.

Cardiac glycosides of *Convallaria keiskei* Mig. Med. prom. 15 no.1:  
12-16 Ja '61. (MIRA 14:1)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut.

(CARDIAC GLYCOSIDES)

REZNICHENKO, A.A.; TROPP, M.Ya.; KOLESNIKOV, D.G.

Recent data on the bufadienolide composition of *Helleborus*  
*purpurascens* W. et K. *Helleborus caucasicus* A. Br. *Mad. prom.*  
15 no.3:15-17 Mr '61. (MIRA 14:5)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut.

(CARDIAC GLYCOSIDES)

MAKSYUTINA, N.P.; KOLESNIKOV, D.G.

Xanthotoxin from parsnip fruits. Zhur. ob. khim. 31 no.4:1386-  
1389 Ap '61. (MIRA 14:4)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut.

(Parsnips) (Xanthotoxin)

MAKAREVICH, I.F.; TROPP, M.Ya.; KOLESNIKOV, D.G.

Chemical study of a new cardiac glycoside from wormseed mustard.  
Dokl. AN SSSR 136 no. 3:617-620 Ja '61. (MIRA 14:2)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut. Predstavleno akademikom A.I. Oparinym.  
(CARDIAC GLYCOSIDES) (WORMSEED MUSTARD)

MAKSYUTINA, N.P.; KOLESNIKOV, D.G.

Flavonoids of parsnip fruit (*Pastinaca sativa* L.). Dokl. AN SSSR  
142 no.5:1193-1196 F '62. (MIRA 15:2)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut. Predstavleno akademikom A.I. Oparinym.  
(Flavonoids)  
(Parsnip)

KOLESNIKOV, D.G.; PROKOPENKO, A.P.; CHERNOBAY, V.T.; DADALI, V.A.

Production of Raunatin preparation from Rauwolfia serpentina roots.  
Med. prom. 15 no.12:25-27 D '61. (MIRA 15:2)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut.

(RAUWOLFIA)

MAKSYUTINA, N.P.; KOLESNIKOV, D.G.

Furocoumarins in some types of *Pastinaca sativa*. Med. prom.  
16 no.2:11-14 F '62. (MIRA 15:3)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut.

(PARSNIPS)  
(FUROCOUMARIN)



KOVALEV, A.F.; TROPP, M.Ya.; KOLESNIKOV, D.G.

Anthraglycosides and aglycons from the cortex of alder buckthorn  
(*Rhamnus frangula* L.). Med. prom. 16 no.3:7-13 Mr '62. (MIRA 15:5)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut.

(BUCKTHORN) (AGLYCONS) (GLYCOSIDES)

LITVINENKO, V.I.; MAKSYUTINA, N.P.; KOLESNIKOV, D.G.

Production of a polyamide sorbent. Med. prom. 16 no.3:40-43 Mr '62.  
(MIRA 15:5)

1. Khar'kovskiy nauchno-issledovatel'skiy khimio-farmatsevticheskiy  
institut.

(SORBENTS)

(POLYIMIDES)

MAKAREVICH, I.F.; TRQPP, M.Ya.; KOLESNIKOV, D.G.

Erythriside, a new cardiac glycoside from *Erysimum cheiranthoides* L.  
Med. prom. 15 no.7:38-43 J1 '61. (MIRA 15:6)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut.

(CARDIAC GLYCOSIDES)

KOMISSARENKO, N.F.; ZCZ, I.G.; CHERNOBAY, V.T.; KOLESNIKOV, D.G.

Coumarins of cow parsnip fruits and their taxonomy. Biokhimiia  
26 no.6:980-983 N-D '61. (MIRA 15:6)

1. Research Chemo-Pharmaceutic Institute, Kharkov.  
(COUMARIN)  
(COW PARSNIP)

GVOZDYAK, P.I.; KOLESNIKOV, D.G.

Effect of an enzymatic preparation from *Aspergillus oryzae* on  
some cardiac glycosides. Med. prom. 15 no.7:14-16 J1 '61.

(MIRA 15:6)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut.

(ASPERGILLUS)

(CARDIAC GLYCOSIDES)

KOLESNIKOV, D.G.; KOMISSARENKO, N.F.; CHERNOBAY, V.T.

Coumarins from *Heracleum sibiricum* L. Med. prom. 15 no.6:32-35  
Ja '61. (MIRA 15:3)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmat-  
sevticheskiy institut.  
(COUMARIN) (PARSNIPS)

SPIRIDONOV, V.N.; PROKOPENKO, A.P.; KOLESNIKOV, D.G.

Phytochemical study of the horsechestnut. Report No. 1: Isolation of the total amount of flavonoids from the leaves. Med.prom. 16 no.4:14-16 Ap '62. (MIRA 15:8)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut.

(HORSECHESTNUT) (FLAVONOIDS)

MAKAREVICH, I. F.; TROPP, M. Ya.; KOLESNIKOV, D. G.

Erycordin and deglucoerycordin, new cardiolglycosides. Dokl.  
AN SSSR 147 no.4:849-852 D '62. (MIRA 16:1)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskoy institut. Predstavleno akademikom A. I. Oparinym.

(Glycosides)



KOMISARENKO, N.F.; CHERNOBAY, V.T.; KOLESNIKOV, D.G.

Cardiac glycoside from *Convallaria keiskei* Miq. Report No.3:  
7-9 S'63. Med prom. 17 no.9: (MIRA 17:5)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko farmatsevticheskiy  
institut.

GVOZDYAK, P.I. [Hvozdiak, P.I.]; KOLESNIKOV, D.G. [Kolesnykov, D.H.]

Hydrolysis of cardiac glycosides by enzymes of the fungus  
*Aspergillus oryzae*. Farmatsev. zhur. 18 no.4:70-75 '63.

(MIRA 17:7)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut.

KOMISSARENKO, N.F.; CHERNOBAY, V.T.; KOLESNIKOV, D.G.

Keioside, a new flavonoglycoside of the lily-of-the-valley  
(Convallaria keiskei Miq.). Dokl. AN SSSR 158 no.4:904-906  
O '64. (MIRA 17:11)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevti-  
cheskiy institut. Predstavleno akademikom M.M. Shemyakinym.

KHVOROST, P.P.; CHERNOBAY, V.T.; KOLESNIKOV, D.G.

Flavono: compounds of the ordinary tansy (*Tanacetum Vulgare* L I).  
Zhur. ob. khim. 34 no.12:4108-4111 D '64 (MIRA 18:1)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsvti-  
cheskiy institut.

SPIRIDONOV, V.N.; PROKOPENKO, A.P.; KOLESNIKOV, D.G.

New kaempferol glycosides of horse chestnut (*Aesculus hippocastanum* L.). *Zhur. ob. khim.* 34, no.12:1128-1129 D '64  
(MIRA 18:1)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut.

ZOZ, I.G.; KOMISSARENKO, N.F.; CHERNOBAY, V.T.; KOLESHNIKOV, D.C.

Taxonomy and biochemistry of some species of the genus *Cochrys* L.  
amend. Koch. Dokl. AN SSSR 162 no.6:1423-1426 Jo '65. (MIRA 18:7)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskii  
institut. Submitted May 22, 1964.

MAKAREVICH, I.F.; KOLESNIKOV, D.G.

Cardanolides of *Erysimum cheiranthoides* L. seeds. Khim. prirod.  
soed. no. 5: 363-364. '65. (MIRA 18:12)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsavti-  
cheskiy institut. Submitted June 16, 1965.

1. KOLESNIKOV, D. I.
2. USSR (600)
4. Soil Moisture
7. New method of determining the humidity of soils. Gidr. i mel. 4, No, 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.



ACC NR: AT60J6933

SOURCE CODE: UR/0000/66/000/000/0110/0115

AUTHORS: Demonis, I. M.; Kalliga, G. P.; Mayer, A. A.; Yezerskiy, M. L.; Kozlova, N. I.; Kolosnikov, E. I.

ORG: none

TITLE: Some data on the electroconductivity of zirconium dioxide stabilized with calcium oxide at a temperature range of 600--1000°C

SOURCE: Nauchno-tekhnicheskoye obshchestvo chernoy metallurgii. Moskovskoye pravleniye. Vysokoogneupornyye materialy (Highly refractory materials). Moscow, Izd-vo Metallurgiya, 1966, 110-115

TOPIC TAGS: zirconium compound, calcium oxide, high temperature ceramic material, semiconducting ceramic material / RETU 606-59 zirconium dioxide

ABSTRACT: Electroconductivity of domestic 99.5% pure zirconium dioxide (RETU 606-59) stabilized with CaO (8--17.5%) has been investigated at temperatures from 600 to 1000°C. The sintering and stabilization processes were combined in one firing. The changes in electroconductivity with temperature and with the content of stabilizer are summarized by Figs. 1 and 2. It was established that the highest specific electroconductivity ( $2.64-3.03 \times 10^{-2} \text{ ohm}^{-1}\text{cm}^{-1}$ ) at 1000°C was exhibited by materials containing 12.5% of CaO, regardless of the type of compound used to introduce the

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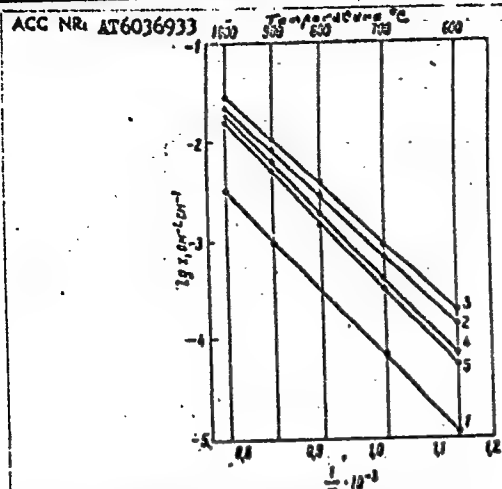


Fig. 1. Specific electroconductivity of samples containing a stabilizer in the form of  $\text{CaCO}_3$ , as a function of temperature: 1 - 8 mole % of  $\text{CaO}$ ; 2 - 10%; 3 - 12.5%; 4 - 15%; 5 - 17.5%  
Cord 2/3

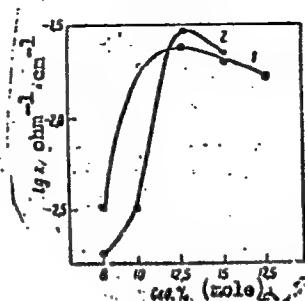


Fig. 2. Electroconductivity as a function of  $\text{CaO}$  content. Stabilizer in form of  $\text{CaCO}_3$  (1) and  $\text{CaZrO}_3$  (2)

ACC NR: AT6036933

stabilizer ( $\text{CaCe}_2$  or  $\text{CaZrO}_3$ ). In spite of the heterogeneous microstructure and the lower degree of saturation of the solid solution with the stabilizing oxide, the product containing 12.5% mole % of CaO (as  $\text{CaZrO}_3$ ) possesses very high electroconductivity. This may be caused by the greater density of the sintered material. Orig. art. has: 3 figures and 1 table.

SUB CODE: 11/ SUBM DATE: 02Nov65/ ORIG REF: 005/ OTH REF: 006

Card 3/3

ZEMSKOV, I.F.; KOLESNIKOV, E.I.; NIVIN, P.I.; PANOVA, L.N.

Selecting the activated carbon for the adsorption of carbon disulfide from the air of viscose manufacture under 'fluidized bed' conditions. Khim. volok. no.2:57-62 '64. (MIRA 17:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut po promyshlennoy i sanitarnoy oчитke gazov (for Zamskov, Kolesnikov).

AVILOV-KARNAUKHOV, B.N.; BATURO, V.I.; BAKHVALOV, Yu.A.; BOGUSH, A.G.;  
BOLYAYEV, I.P.; GIKIS, A.F.; DROZDOV, A.D.; KAYALOV, G.M.; KLEYMENOV,  
V.V.; KOLESNIKOV, E.V.; MALOV, D.I.

Professor Efim Markovich Sinel'nikov, 1905- ; on his 60th birthday.  
Elektrichestvo no.9:89 S '65.

(MIRA 18:10)

21472

S/144/61/000/002/001/004  
E031/E135

16.3800

AUTHOR: Kolesnikov, E.V., Assistant

TITLE: The Solution of Boundary Value Problems for Harmonic Functions in n-ply Connected Domains by Simulation of Green's Function

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1961, No. 2, pp. 3-17

TEXT: Generally electrical simulation may be attempted throughout a region or at selected points in the region. In either case the solution may be simulated in a geometrically similar region or simulation may be achieved by auxiliary functions. While there are drawbacks to the former method, the latter is usually simpler and it is this approach which is adopted in this paper. The method described has the added advantage that from a single measurement on the model, boundary problems for varied and arbitrary boundary conditions may be solved in a given domain. Consider first the internal Dirichlet problem. Green's function is represented by an electrical potential due to a wire carrying a charge of unit density if the potential on the boundary is held at Card 1/5

above constant potential. The solution of exterior problems is usually achieved by reducing them to interior problems by a transformation but there is the problem of simulating the influence of infinitely distant regions. Solutions are called regular if they tend to a constant at infinity and their simulation does not present great difficulties.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000723810005-5  
For irregular problems we must introduce a circle with one boundary  $\Gamma_0$  and centre M (inside the boundary L of the given Card 2/5

21472

S/144/61/000/002/001/004  
E031/E135

The Solution of Boundary Value Problems for Harmonic Functions in n-ply Connected Domains by Simulation of Green's Function problem) surrounding the given domain, and having a sufficiently large radius. Then a conformal transformation which is an inversion with centre  $M$  is effected before solution of the problem can be simulated. The problem of a conducting cylinder of given cross-section carrying a given charge per unit length is used to illustrate the method. The solution can be given a matrix formulation. If the solution is required at points  $M_i$ , then in terms of points  $P_j$  on the boundary we can write the solution vector as  $u_i = \beta_{ij} u(P_j)$ , where  $\beta_{ij} = \beta(\Delta \ell_i, M_j)$ . The method is particularly effective if several problems have to be solved for a given domain because the matrix  $\beta$  is fixed and one can effect the matrix multiplication for each problem on a digital computer conveniently. The Neumann problem is approached in a similar manner, except that in place of the vector  $u(P)$ , we have the vector  $\partial u(P)/\partial n$ . The mixed problem is a combination of the two cases discussed. In many cases it is required to find only the normal derivative on the boundary of the domain.

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S/144/61/000/002/001/004  
E031/E135

The Solution of Boundary Value Problems for Harmonic Functions in n-ply Connected Domains by Simulation of Green's Function

One method is to find the value of the solution at points near the boundary by the above method and determine an increment  $\Delta u_n$  so that the normal derivative can be approximated by  $\Delta u_n / \Delta n$ . An alternative is to solve the Neumann problem for the conjugate function. Finally the problem is discussed of a hollow conducting cylinder inside which are placed a conducting cylinder and a dielectric cylinder. The conducting inner cylinder is surrounded by a layer of dielectric. The problem of calculating the field consists either in finding the potential at given points or in finding the normal derivative along all boundaries. It is solved by setting up a system of linear algebraic equations. In conclusion it is stated that the method described is particularly effective when the required function is investigated in a bounded domain (determining the maximum electric field strength or the maximum induction of a magnetic field) and when it is necessary to solve many problems for the same domain.

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S/144/61/000/002/001/004  
E031/E135

The Solution of Boundary Value Problems for Harmonic Functions in  
n-ply Connected Domains by Simulation of Green's Function

Problems more complicated than the traditional first and second  
boundary problems can be solved by the method.  
There are 3 figures and 6 Soviet references.

ASSOCIATION: Kafedra elektricheskikh mashin i apparatov,  
Novocherkasskogo politekhnicheskogo instituta  
(Department of Electrical Machines and Apparatus of  
the Novocherkassk Polytechnical Institute)

SUBMITTED: December 21, 1960

X

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SOV/144-59-12-3/21

AUTHORS: Tozoni, O.V., Candidate of Technical Sciences, Dotsent;  
Khlebnikov, S.D., Assistant; Sinel'nikov, Ye.M., Doctor  
of Technical Sciences, Professor; Kolesnikov, E.V.,  
Assistant

TITLE: An Electrointegrator<sup>76</sup> for Solving Dirichlet and Neuman's  
Problems in a Strip

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika,  
1959, Nr 12, pp 18-25 (USSR)

ABSTRACT: Dirichlet-Neuman boundary value problems arise in the  
calculation of fields in linear media. Analytical and  
numerical methods of solution appear to be unsatisfactory  
in practice and simulation is therefore considered. The  
conventional approach has a number of disadvantages. For  
example, in Fig 1 a harmonic function is modelled by  
the potential  $V$  of the current field in a conducting  
sheet. The potential and its gradient are measured with  
the probes and potentiometer. The sheet is usually  
metallic, with an insufficiently high surface resistivity.  
A better method is that of Fig 2 in which the harmonic  
function is represented by current. The current itself  
is measured by a special magnetic loop-probe connected to

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An Electromagnetic Integrator for Solving Dirichlet and Neuman's Problems in a Strip

SOV/144-59-12-3/21

a ballistic galvanometer. The current gradient is measured on a galvanometer connected to a twin-probe, using the relationship between the space-derivative of current and the time-derivative of voltage. The new method has the following disadvantages: for each new problem a special model must be made by skilled effort; high accuracy demands careful setting of the boundary values and this requires precision rheostats; an estimate of the accuracy in any region is difficult. However, the use of conformal transformation enables these drawbacks to be avoided and a general-purpose simulator has been evolved. In 1956 a method of conformally representing a singly or doubly-connected region within an infinite strip was developed at the Novocherkasskiy Polytechnic Institute (Ref 1,2,3). The Dirichlet problem then becomes Poisson's integral (Ref 1, 2). The problem is still a difficult one but the authors' development, the Electointegrator, allows a sufficiently accurate numerical solution. The electointegrator is intended chiefly for finding, at the

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SOV/144-59-12-3/21

An Electointegrator for Solving Dirichlet and Neuman's Problems in a Strip

arrangement is intended for calculations of the fields in unsaturated machines. In the appendix the problem is solved of finding the radial component of induction in the armature of a HN-300 machine (Fig 4). Fig 5 shows the distributions of scalar magnetic potential along the rectangle for both rotor  $\varphi_2$  and stator  $\varphi_1$ . Fig 6 is the distribution of induction along the edge of the armature, under a main pole, compared with experimental findings (shown dotted). There are 6 figures, 2 tables and 4 Soviet references.

ASSOCIATION: Novocherkasskiy politekhnicheskiy institut  
(Novocherkassk Polytechnic Institute) ✓

SUBMITTED: July 26, 1959

Card 4/4

16.6800

S/144/62/000/011/001/003  
D230/D308

AUTHOR: Kolesnikov, Erio Viktorovich, Aspirant

TITLE: Calculation of first derviatives of harmonic functions by means of an electric simulation of the source function

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Elektromekhanika, no. 11, 1962, 1211-1224

TEXT: The problems discussed are: (i) determination of the derivatives inside a domain for harmonic functions, whose boundary values are given (first boundary problem); (ii) determination of the derivatives inside the domain for harmonic functions, whose normal derivative at the boundary is given (second boundary problem); (iii) determination of tangential differences of harmonic functions at the boundary if their normal derivatives at the boundary are given (first inverse problem); (iv) (second inverse problem) determination of the normal derivative at the boundary for harmonic functions whose tangential differences (or boundary values) are given. The

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Calculation of first derivatives ...

S/144/62/000/011/001/003  
D230/D508

method is semi-analytical and requires an experimental determination (with the aid of electric measurements on a model of the domain cut out of conducting metal foil) of the system of coefficients describing the geometric properties of the domain considered. The resulting accuracy of the solution is 1-3%. The application of the method is illustrated by two examples. There are 7 figures and 3 tables. /B

ASSOCIATION: Novocherkasskiy politekhnicheskiy institut (Novocherkassk Polytechnic Institute)

SUBMITTED: November 20, 1961

Card 2/2

BAKHVALOV, Yuriy Alekseyevich, assistant; KOLESNIKOV, Erno Viktorovich, aspirant

"Theoretical fundamentals of electrical engineering" by L.A. Bassonov.  
Reviewed by IU.A. Bakhvalov and E.V. Kolesnikov. Izv. vys. ucheb.  
zav.; elektromekh. 5 no.12:1431-1432 '62. (MIRA 1616)

1. Kafedra elektricheskikh mashin, apparatov, matematicheskikh i  
schetnoreshayushchikh priborov i ustroystv Novocherkasskogo  
politekhnikheskogo instituta (for Bakhvalov). 2. Kafedra teoreti-  
cheskikh osnov elektrotekhniki Novocherkasskogo politekhnikheskogo  
instituta (for Kolesnikov).

(Electric engineering) (Bassonov, L.A.)

KOLESNIKOV, Erio Viktorovich, aspirant

Determination of integral electrical parameters of a system of parallel wires with random cross section. Izv. vys. ucheb. zav.; elektromekh. 6 no.10:1131-1140 '63. (MIRA 17:1)

1. Kafedra teoreticheskoy i obshchey elektrotekhniki Novocherkasskogo politekhnicheskogo instituta.

KOLESNIKOV, Erio Viktorovich, aspirant

Electrical simulation of conformal mapping onto a circle.  
Izv. vys. ucheb. zav.; elektromekh. 6 no.12:1289-1295 '63.  
(MIRA 17:1)

1. Kafedra teoreticheskoy i obshchey elektrotehniki Novo-  
cherkasskogo politekhnicheskogo instituta.



L 18414-63

EWI(d)/FCC(w)/BDS AFFTC/IJP(G)

ACCESSION NR: AT3003352

S/2943/63/000/001/0114/0135

AUTHOR: Kolesnikov, E. V.

TITLE: Conversion of boundary conditions of Neumann and Dirichlet problems for the Laplace equation

SOURCE: Matematicheskoye modelirovaniye i elektricheskiye tsepi; trudy Seminara po metodam matematicheskogo modelirovaniya i teorii elektricheskikh tsepey, no. 1. Kiev, Izd-vo AN UkrSSR, 1963, 114-135

TOPIC TAGS: Dirichlet problem, Neumann problem, approximate solution, partial differential equation

ABSTRACT: Often there arises a need for one and the same harmonic function in a simple analytic expression connecting the boundary conditions of a Dirichlet problem with the boundary conditions of a Neumann problem. Besides the fact that this problem has numerous applications per se, it often arises as an intermediate stage in problems with conjugate boundary conditions of the type

$$x_1 \frac{\partial \varphi^+}{\partial n} = x_2 \frac{\partial \varphi^-}{\partial n}, \quad \frac{\partial \varphi^+}{\partial l} = \frac{\partial \varphi^-}{\partial l}. \quad (1)$$

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ACCESSION NR: AT3003352

where  $\varphi^+$  is defined on some plane region  $D^+$  of arbitrary connectedness and  $\varphi^-$  on its complement  $D^-$  with respect to the entire plane. The conditions of conjunction are given along the boundary  $L$  ( $n$  is the normal,  $df$  is the differential of the arc) and one or both functions  $\varphi^+$ ,  $\varphi^-$  are harmonic. The first step of the solution of such problems can be the determination along  $L$  of the values  $\frac{\partial \varphi}{\partial n}$  or  $\frac{\partial \varphi}{\partial L}$ . For example, introduce the operators  $K^+$  and  $K^-$  such that

$$\frac{\partial \varphi^+}{\partial L} = K^+ \frac{\partial \varphi^+}{\partial n}, \quad \frac{\partial \varphi^-}{\partial L} = K^- \frac{\partial \varphi^-}{\partial n}. \quad (2)$$

Then, since  $\frac{\partial \varphi^+}{\partial n} = \frac{\mathcal{M}}{\mathcal{K}} \frac{2}{1} \frac{\partial \varphi^-}{\partial n}$ , from (II) one obtains

$$K^+ \left( \frac{x_1}{x_1} \frac{\partial \varphi^-}{\partial n} \right) = K^- \frac{\partial \varphi^-}{\partial n}. \quad (3)$$

from which one can find the function  $\frac{\partial \varphi^-}{\partial n}$  if the operators  $K^+$ ,  $K^-$  have sufficiently simple form. The author gives a method for approximate finding of the

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ACCESSION NR: AT3003352

form of the operator K for converting the boundary conditions of the harmonic function by the use of electric simulation in conducting plates which may be either metallic homogeneous plates of raised resistance (steel dynamo type) or electroconductive paper. The approximate operator K has the form of a matrix whose coefficients are found experimentally. Orig. art. has: 7 figures, 5 tables, and 30 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 12Jul63

ENCL: 00

SUB CODE: MM

NO REF SOV: 002

OTHER: 000

Card 3/3

KOLESNIKOV, Erio Viktorovich, kand. tekhn. nauk

Determination of an equivalent radius in calculating the electrical parameters of long lines. Izv. vys. ucheb. zav.; elektromekh. 7 no.9:1057-1059 '64 (MIRA 18:1)

1. Ispolnyayushchiy obyazannosti zaveduyushchego kafedroy teoreticheskoy i obshchey elektrotehniki Novocherkasskogo politekhnicheskogo instituta.

KOLESNIKOV, E.V., kand.tekhn.nauk

Review of O.V.Tozoni's book "Mathematical models for calculating  
electric and magnetic fields." Izv.vys.ucheb.zav.; elektromekh.  
7 no.11:1398 '64. (MIRA 18:3)

KOLESNIKOV, Erio Viktorovich, kand.fiziko-matematicheskikh nauk

Calculation of the capacitance of a two-wire line on a thick  
dielectric pad. Izv.vys.uch.ab.zav.; elektromekh. 7 no.12:1410-  
1413 '64. (MIRA 18:2)

1. Zaveduyushchiy kafedroy teoreticheskoy i obshchay elektrotekhniki  
Novocherkasskogo politekhnicheskogo instituta.

KOLESNIKOV, Eric Viktorovich, kand. fiziko-matem. nauk

Electric modeling of a conformal reflection of multiply connected regions on regions limited by circumferences. Izv. vys. ucheb. zav.; elektromekh. 8 no.5:495-500 '65.  
(MIRA 18:7)

1. Zaveduyushchiy kafedroy teoreticheskoy i obshchey elektrotekhniki Novocherkasskogo politekhnicheskogo instituta.

L 22425-66 EWT(d)/EWP(k)/EWP(l)  
ACC NR: AP6013623

SOURCE CODE: UR/0105/65/000/009/0089/0090

AUTHOR: Avilov-Karnaukhov, B. N.; Batur, V. I.; Bakhvalov, Yu. A.; Bogush, A. G.; Bolyayev, I. P.; Gikis, A. F.; Drozdov, A. D.; Kayalov, G. M.; Kleymenov, V. V.; Kolesnikov, E. V.; Malov, D. I.

ORG: none

TITLE: Honoring the 60th birthday of Professor Yefim Markovich Sinel'nikov

SOURCE: Elektrichestvo, no. 9, 1965, 89-90

TOPIC TAGS: academic personnel, electric engineering personnel, computer research

ABSTRACT: Professor Sinel'nikov was born 11 May 1905 in Yekaterinoslav (now Dnepropetrovsk) in the family of a clerk. Following his graduation from the Khar'kov Electrical Engineering Institute in 1930 he was appointed chief of the Technical Division on Electric Drive at the Khar'kov Electrical Machinery Plant. Subsequently he was appointed research engineer at the Vol'ta Plant and later on transferred to Moscow, to the Institute of Experimental Medicine, while at the same time he continued his studies. In 1946 he started working as a senior scientific researcher at the All-Union Electrical Engineering Institute. Since September 1953 Professor Sinel'nikov has been working at the Novocherkassk Polytechnic Institute. At present he is head of the Chair of

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UDC: 621.313



L 22425-66

ACC NR: AP6013623

Electrical Machinery, Apparatus, and Computers and Mathematical Devices. He has been instrumental in establishing the computer laboratory at this institute, where research is being performed on the problems of utilizing computer engineering in the design and calculation of electromagnetic, mechanical, and thermal processes in electrical machinery and equipment. Since 1958 Professor Sinel'nikov has been Coordinating Editor of the journal Elektromekhanika (Electromechanics) - one of the series published under the aegis of Izvestiya Vysshikh Uchebnykh Zavedeniy (News of Higher Schools). Yefim Markovich is moreover a prominent educator and the holder of many social honors and consultant to a series of industrial enterprises. For his great merits as an educator and for his scientific contributions he has been awarded the Order of Labor Red Banner. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 2/2 (11)

11100 2908

20153

S/029/61/000/005/001/002  
D034/D113

AUTHORS: Kolesnikov, F. and Bloshteyn, Ye., Engineers

TITLE: Difficulties in manufacturing spiral bevel gears have been overcome by rolling instead of cutting

PERIODICAL: Tekhnika molodezhi<sup>29</sup> no. 5, 1961, 3-4

TEXT: The article deals with the manufacture of spiral bevel gears and reviews the advantages of the rolling process over other methods. Casting will not do because of the porosity of cast metal, and gears have to withstand large dynamic loads. Stamping will not always yield accurate and uniform dimensions of the gears. It requires also expensive presses and tools with exceptional cutting qualities. The prevailing method of machining spiral bevel gears on special gear-cutting machines causes a waste rate of nearly 50% of the expensive alloy steel in the form of chips. The method of hot gear rolling is not new but was not used for spiral bevel gears heretofore due to the lack of a suitable rolling machine guaranteeing an unflinching accuracy of the parts. The Moskovskiy avtozavod imeni Likhacheva (Moscow Automobile Plant imeni Likhachev) in cooperation with the Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy promyshlennosti (Scientific Research Institute of Automotive Technology) has developed a method of hot gear rolling which makes it possible to manufacture spiral bevel gears with the required accuracy and uniform dimensions. The method of hot gear rolling is not new but was not used for spiral bevel gears heretofore due to the lack of a suitable rolling machine guaranteeing an unflinching accuracy of the parts. The Moskovskiy avtozavod imeni Likhacheva (Moscow Automobile Plant imeni Likhachev) in cooperation with the Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy promyshlennosti (Scientific Research Institute of Automotive Technology) has developed a method of hot gear rolling which makes it possible to manufacture spiral bevel gears with the required accuracy and uniform dimensions.

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Difficulties in manufacturing ...

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D034/D113

tific Research Institute of Automotive Engineering - NIITAvtoprom) have now developed a new method and a machine for rolling spiral bevel gears (Fig. 1). The machine includes an induction ring heater that heats the gear blank uniformly, a gear shaping tool that presents a mirror copy of the gear to be produced, and synchronizers or straight-tooth bevel gears. The synchronizers are mounted on the same axis of rotation with the gear blank and tool and have the same ratio. Scale formation on the hot blanks is prevented by shielding with endogas. The operator places the blank and starts the machine with a push button. The blank in the annular heater becomes red hot in 20-30 sec. and a time relay gives the command for the retraction of the heater and feed of the spindle with the rolling tool. Gas supply into the rolling zone starts simultaneously, and the gas flame over the blank protects the surface from oxidation. The formation of teeth on the blank is gradual but rapid. The entire rolling process lasts less than 2 min. The flame disappears at the end of the process, and a mechanical "hand" carries the ready gear to a table. The gear surface is completely free of scale and the finish is good. The new method will be applied in various branches of the machine building industry. A production line at the Moscow Automobile Plant imeni Likhachev already includes such semi-automatic gear rolling

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D034/D113

Difficulties in manufacturing ...

machines. The experimental plant of the NIITAvtoprom has produced the first machines for other plants. The estimated metal economy through eliminated metal losses inherent with gear cutting is 40%. The machine design was developed at NIITAvtoprom under the direction of the experimental engineer, Candidate of Technical Sciences V. V. Yakimanskiy; the chief designer was I. I. Kirichinskiy; engineer N. A. Shlyapin heading the Technological Department conducted the experiments. I. N. Shklyarov, head of the design office at the electric-heat shop of the Moscow Automobile Plant imeni Likhachev, contributed to the development of the induction ring heating system. There are 3 figures.

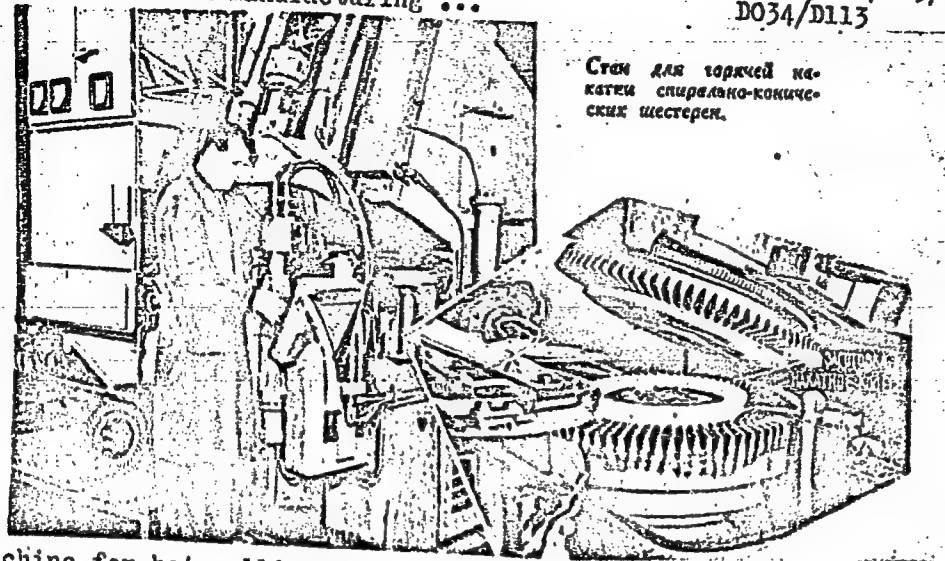
Card 3/4

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Difficulties in manufacturing ...

S/029/000/005/001/002  
D034/D113



Machine for hot rolling spiral bevel gears

Card 4/4

KOLESNIKOV, F., inzh. (Perm'); POPOV, N.; VELIKODVORSKIY, P.;  
VENEROV, A. (g. Chirchik)

With the aid of volunteers. Sov. profsoyuzy 18 no.21:9  
N '62. (MIRA 15:11)

1. Rabotnik Tambovskogo oblastnogo soveta professional'nykh  
soyuzov (for Popov). 2. Predsedatel' obshchestvennogo  
ekonomicheskogo soveta Onazhskogo traktornogo zavoda,  
g. Petrozavodsk (for Velikodvorskiy). 3. Neshtatnyy  
korrespondent zhurnala "Sovetskiye profsoyuzy"  
(for Vengerov).

(Technological innovations)

REF: 111111, 111111  
KHAR'KOV, Vladimir Afanas'yevich; KURASHEV, Leonid Andreyevich; MALEKSHENKO,  
Petr Andreyevich; KOLMSNIKOV, F.M., redaktor; PIMCHENKO, S.I.,  
tekhnicheskii redaktor

[General overhauling of oil and gas wells in the Grozny Oil  
Administration fields] Opyt kapital'nogo remonta neftiannykh i  
gazovykh skvazhin na promyslakh ob"edineniia "Grosneft'." Grozny,  
Grosnegnskoe kn-vo, 1955. 53 p. [Microfilm] (MIRA 10:4)  
(Oil wells) (Gas, Natural)

~~KOLESHNIKOV, F.M.~~

ALEXSEYEV, Ivan Vasil'yevich.; KOLESHNIKOV, F.M., redaktor; PIMCHENKO, S.I.,  
tekhnicheskiy redaktor.

[Innovators and inventors of Grozny petroleum refineries] Ratsionali-  
zatory i izobretateli ob"edineniia "Grozneftasavody." [Groznyi]Groz-  
nenskoe kn-vo, 1955.81 p. [Microfilm] (MLRA 10:4)  
(Groznyy--Petroleum engineering)



*Kolesnikov F.M.*

SEROBABIN, Petr Kuz'mich; ~~KOLESNIKOV, F.M.~~, redaktor; BABICHEVA, V.V.,  
tekhnicheskiy redaktor

[Hermetic sealing on oil fields during the production of oil and  
gas] Germetizatsiia na neftepromyslakh pri dobyche nefli i gaza.  
Groznyi, Groznenskoe knizhnoe izd-vo, 1956. 47 p. (MLRA 10:10)  
(Petroleum engineering)

*KOLESNIKOV, F.M.*

ZHELYABOVSKIY, Aleksandr Illarionovich; KOLESNIKOV, F.M., red.; BABICHEVA,  
V.V., tekhn.red.

[Ways of increasing the manufacture of petroleum products; practices  
of personnel in the Grozny plant of the "Grozneftezavod" Petroleum  
Trust] Puti uvelicheniia vyrabotki nefteproduktov; iz opyta raboty  
kollektiva Groznenskogo neftezaslozavoda ob"edineniia "Groznefte-  
zavody." [Grozny] Groznenskoe knizhnoe izd-vo, 1956. 60 p.  
(Grozny--Petroleum products) (MIRA 11:3)

BASHILOV, Arseniy Aleksandrovich, kand.techn.nauk; STOLOV, Al'bert  
Israilovich; KVCHENIN, Fedor Abramovich; KOLESHNIKOV, F.M.  
red.; BABICHEVA, V.V., tekhn.red.

[Ways of reducing losses of petroleum products in refineries]  
Puti sokrashchenia poter' nefteproduktov na neftepereraba-  
tyvalushchikh zavodakh. [Groznyi] Groznenskoe knizhnoe izd-vo,  
1957. 125 p. (MIRA 12:1)

(Petroleum--Refining)

DOROGUCHINSKIY, Akiviy Zinov'yevich; LYUTER, Aleksandr Valentinovich;  
VOL'POVA, Yevgeniya Grigor'yevna; REKHVILASHVILI, Antonina  
Nikolayevna; ROLESNIKOV, F.M., red.; KUZ'MENKOVA, N.T.,  
tekhn. red.

[Oil gases in the Chechen-Ingush and other economic regions  
of the Northern Caucasus] Neftianye gazy Checheno-Ingushskogo  
i drugikh ekonomicheskikh raionov Severnogo Kavkaza. Grozny  
Checheno-Ingushskoe knizhnoe izd-vo, 1960. 259 p.

(MIRA 16:3)

(Caucasus, Northern—Gas, Natural)

KOLESNIKOV, F.M.

Mechanization and automation of the automobile industry  
in Western Europe. Biul.tekh.-ekon.inform. no.7:82-87

'60.

(MIRA 13:7)

(Europe, Western--Automobile industry--Technological innovations)  
(Europe, Western--Automation)

KOLESNIKOV, F. N.

Subject : USSR/Engineering AID P - 1144  
Card 1/1 Pub. 78 - 22/25  
Author : Kolesnikov, F. N.  
Title : Multipurpose brigades as an important means of increasing labor production  
Periodical : Neft. khoz., v. 32, #11, 89-90, N 1954  
Abstract : The activity of six brigades is in improveing methods and instruments and increasing production of drills, bits and other cutting tools is outlined. The brigades are composed of engineers, technologists, machinists and other skilled workers in various positions in machine-building and tool-making shops.  
Institution : Baku Machine-building Plant im. Kirov of the Ministry of Petroleum Industry of Azerbaydzhan SSR  
Submitted : No date

KOLESNIKOV, F.N.

Diamonds in the industry of capitalist countries.  
Mashinostroitel' no. 5:42-43 My '64. (MIRA 17:7)

BLOSHTEYN, Ye. A.; KOLESNIKOV, F.N.

Standard automatic line for assembling and part machining of  
connecting rods for automobile engines. Biul.tekh.-ekon.  
inform. no.6:19-20 '61.

(MIRA 14:6)

(Moscow—Automobile industry)  
(Automation)



AGABIN, B.M.; KOLEZNIKOV, F.N.

The 528 semiautomatic machine for hot form rolling of bevel gears.  
Bul.tekh.-ekon.inform. no.8:33-35 '61. (MIRA 14:8)  
(Gear shaping machines)

KOLESNIKOV, F.N., inzh.

Mechanization of materials handling at an automobile plant.  
Mekh. i avtom. proizv. no. 3:48-51 Mr '63. (MIRA 17:9)

KOLESNIKOV, G.

Northern stories. Vokrug sveta no.9:29-32 S '54. (MLBA 7:10)  
(Arctic regions--Zoology) (Zoology--Arctic regions)

KOLESNIKOV, G. A.

"Method of calculation of the distribution of the circulation on short wings."

In this paper the calculation is considered of thin short wings with any shape in the horizontal projection for small incidence angles and low flying speeds. The wing is substituted by a system of discreet joined vortices with an intensity which varies in the longitudinal direction. A formula is derived for the speed in the direction normal to the wing which is induced by the vortex system. A system of integral equations is given for the circulation which was obtained from the accurate fulfilment of the conditions of flow on certain lines of the surface. The obtained system of integral equations is solved by introducing the interpolation polynomial for the function  $\gamma(1-\cos\varphi)$  and by satisfying the above mentioned boundary condition for a finite number of cross sections. The results of calculations are given for seven different wings (Figs. 15-35) and the obtained results are compared with experimental values. Comparison of the calculated results for a number of examples with experimental ones indicates that even for four joined vortices and fifteen sections, in which the boundary conditions are fulfilled, very satisfactory results are obtained, i.e. for small incidence angles the characteristics calculated by the here described method differ from the experimentally determined ones by 2 to 10%, the accuracy of the experimental values being 5%.  
(First published in 1959).

Symposium of Theoretical Work on Aerodynamics, Oborongiz, 1957, 3,000 copies, Central Aero-Hydrodynamics Inst. imeni Prof. N. Ye. Zhukovskiy.

KROMICHEV, V.A.; SAMOYLENKO, V.A.; KOROBAN', G.I., inzh.-mekhanik;  
ARTEM'YEV, I.M.; KOLESNIKOV, G.A.

Letters to the editor. Put' i put.khoz. 5 no.4:47 Ap '61.  
(MIRA 14:7)

1. Dorozhnyy master st. Magnitity, Oktyabr'skoy dorogi (for Kromichev).
2. Zamestitel' nachal'nika distantii puti, st. Belorechenskaya, Severo-Kavkazskoy dorogi (for Samoylenko).
3. Stantsiya Belorechenskaya, Severo-Kavkazskoy dorogi (for Koroban').
4. Nachal'nik otdela puti dorogi, stantsiya Bogotol, Krasnoyarskoy dorogi (for Artem'yev).
5. Nachal'nik sluzhby puti tresta Snezhinatratsit, g. Snezhnoye (for Kolesnikov).

(Railroads)

POLTAVETS, A.Ya.; KOLESNIKOV, G.F.

Utilization of the heat emitted by the compressor operation for the  
production of distilled water. Prom.energ. 16 no.6:10 Je '61.  
(MIRA 15:1)

(Water, Distilled) (Steam)

KOLESNIKOV, G. F.

Kolesnikov, G. F. "Rising norms of primary diffuse encephalomyelitis." Kiev Order of Labor Red Banner Medical Inst. imeni Academician A. A. Bogomolets. Kiev, 1956. (Dissertations for the Degree of Candidate in Medical Science)

So: Knizhnaya letopis', No. 27, 1956. Moscow. Pages 94-109; 111.

USSR / General Problems of Pathology. Allergy.

U

Abs Jour: Ref Zhur-Biol., No 11, 1958, 51512.

Author : Kolesnikov, G. F.

Inst : Not given.

Title : Intradermal Allergic Test in Primary Diffuse Encephalomyelitis and Multiple Sclerosis.

Orig Pub: Zh. nevropatol, i psikhiatrii. 1957, 57, No 3, 317-322.

Abstract: An inactivated suspension of brain tissue of rats, infected with the virus of human acute encephalomyelitis (E), was injected into the skin of the forearm in doses of 0.2 ml. Into the forearm of the second hand 0.2 ml of brain suspension of non-infected rats was injected. The results of the test were read within 24-48 hours. The reaction was considered positive when the redness

Card 1/2

*Clinic of Nervous Diseases  
Chernovitsky Med Inst.  
14*



GROMASHEVSKAYA, L.L., kand.med.nauk, KOLESNIKOV, G.F., kand.med.nauk (Kiev).

Inorganic phosphorus in the cerebrospinal fluid in poliomyelitis.  
Vrach.delo no.10:1041-1043 O '58 (MIRA 11:11)

1. Institut infektsionnykh bolezney AMN SSSR.  
(PHOSPHORUS IN THE BODY)  
(CEREBROSPINAL FLUID)  
(POLIOMYELITIS)

KOLRSNIKOV, G.F., kand.med.nauk

Cases of poliomyelitis in a rural area. Ped., akush. i gin. 20  
no.5:16 '58. (MIRA 13:1)

1. Institut infektsionnykh bolezney AMN SSSR (direktor - chlen-korres-  
pondent AMN SSSR prof. I.L. Begdanov).  
(DEGOBYCH PROVINCE--POLIOMYELITIS)

KIRICHINSKAYA, I.A.; KOLESNIKOV, G.F.; KRASNOV, B.G.

Clinical aspects of serous meningitis caused by Coxsackie viruses.  
Zhur. nevr. i psikh. 60 no.3:273-279 '60. (MIRA 14:5)

1. Institut infektsionnykh bolezney (dir. - prof. I.L.Bodganov)  
AMN SSSR i 1-ya Nikolayevskaya gorodskaya bol'nitsa (glavnyy vrach  
K.F.Timoshevskaya).  
(COXSACKIE VIRUSES) (NIKOLAEV—MENINGITIS)

MOROZKIN, N.I., prof.; BITENBINDER, Ye.A., kand.med.nauk; KOLESNIKOV, G.F.,  
kand.med.nauk; SLOBODYANYUK, M.I. (Kiyev)

Differential diagnosis of influenza. Vrach. delo no.1:112-116 Ja '62.  
(MIRA 15!2

1. Institut infektsionnykh bolezney AMN SSSR.  
(INFLUENZA)

KOLESNIKOV, G.F., kand.med.nauk

Characteristics of "minor" disease in a children's home  
caused by the Coxsackie B1 virus. *Pediatrics* 42 no.5:  
27-33 Ky'63 (MIRA 16:11)

1. Iz Instituta kibernetiki (direktor - akad. V.M.Glushkov)  
AN UkrSSR, Kiev.

KOLESNIKOV, G.F., kand.med.nauk; GRIGOR'YEVA, L.V., kand.med.nauk; POTULOVA, Ye.K.; SHCHIROVA, N.N.; GORBULEVA, Z.V.; GAZARKH, R.N.

Characteristics of the clinical aspects in the course of Bornholm disease caused by Coxsackie virus B3. Sov.med. 28 no.4:52-56 Ap '65.  
(MIRA 18:6)

1. Institut kibernetiki AN UkrSSR (dir. - deystvitel'nyy chlen AN Ukrainskoy SSR V.M.Glushkov) Ukrainskiy nauchno-issledovatel'skiy institut kommunal'noy gigiyeny (dir. - prof. D.N.Kalyuzhnyy) i Luganskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya (glavnyy vrach - N.N.Shchirova).

KOLESNIKOV, G. I.

"Studying the Effect of the Hydrogenating Conditions of Sunflower Oil on the Glyceride Composition and on the Physical Properties of Edible Hydrogenated Fats." Cand Tech Sci, Krasnodar Inst of the Food Industry, Krasnodar, 1954. (RZhKhim, No 23, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: Sum. No. 556, 24 Jun 55

KOLESHNIKOV, G.I.

Effect of the activity of hydrogenation catalysts on the formation  
of solid isocoleic acids. Izv.vys.ucheb.zav.; pishch.tekh. no.5:  
48-52 '58. (MIRA 11:12)

1. Krasnodarskiy institut pishchevoy promyshlennosti, kafedra  
tekhnologii zhiroporerabotki.  
(Oils and fats) (Oleic acid) (Catalysts)



KOLESNIKOV, G.I.; MINAKOVA, G.D.

Effect of the hydrogenation conditions on physical properties of the hydrogenated fat from cottonseed oil. Izv.vys.ucheb.zav.; pishch. tekhn. no.6:44-48 '61. (MIRA 15:2)

1. Krasnodarskiy institut pishchevoy promyshlennosti, kafedra plasticheskikh mass.

(Cottonseed oil)(Hydrogenation)

KOLESNIKOV, G.I.; MINAKOVA, G.D.

Studying the hydrogenation of cottonseed oil in the foamy state.  
Izv.vys.ucheb.zav.; pishch.tekh. no.4:77-83 '62. (MIRA 15:11)

1. Krasnodarskiy institut pishchavoy promyshlennosti, kafedra  
tekhnologii plastmass.  
(Cottonseed oil) (Hydrogenation)

KOLESNIKOV, G. I.; PODDUBNYI, V. I.

Chromatographic analysis of the acid composition of the products of oxidation of furfural in the gas phase. Izv. vys. ucheb. zav.; pishch. tekhn. no.5:40-42 '62.

(MIRA 15:10)

1. Krasnodarskiy institut pishchevoy promyshlennosti, kafedra tekhnologii plasticheskikh mass.

(Chromatographic analysis) (Furaldehyde)

ARKHAROV, V. I.; KOLESNIKOV, G. M.; NEMNOV, S. A.

Gas Chromatization of Iron and Steel Products

"Texco" Files ITEIN, 3rd Series (The Struggle against Corrosion), No. 210/10, 1943

SYROV, A.A.; KOLESHNIKOV, G.M., inzhener-polkovnik, redaktor; STREL'-  
NIKOVA, M.A., tekhnicheskiy redaktor.

[Ground photography] Nazemnoe fotografirovaniye. Izd. 3-e, ispr.  
i dop. Moskva, Voen. izd-vo Voennoy Ministerstva SSSR, 1952. 390 p.

[Microfilm] (MIRA 8:1)  
(Photography)

VORONOV, A.A., kandidat tekhnicheskikh nauk; KOLESNIKOV, G.M., inzhener-polkovnik, redaktor; KUZ'MIN, I.F., tekhnicheskii redaktor.

[Elements of the theory of automatic control] Elementy teorii avtomaticheskogo regulirovaniia. Izd. 2-e, perer. i dop. Moskva, Voennoe izd-vo Ministerstva oborony SSSR, 1954. 470 p. (MIRA 8:5)  
(Automatic control)

SYROV, A.A.; KOLESNIKOV, G.M., inzh.-polkovnik, red.; KONOVALOVA, Ye.K.,  
tekh. red.

[Ground photography] Nazemnoe fotografirovanie. Izd.2. Mo-  
skva, Voen.izd-vo M-va vooruzhennykh sil SSSR. 1949. 366 p.

(MLA 15:4)

(Photography, Military)

PANCHENKOV, G.M.; KOLESNIKOV, I.M.; KOLESNIKOV, G.M.

Thermodynamic calculations of the realkylation reaction of benzene with diisopropyl-benzene in the gas phase. Trudy MINKHIGP no.37:24-29 '62.

Studying the kinetics of the realkylation reaction of benzene with diisopropyl-benzenes in the presence of an aluminosilicate catalyst. Ibid.:29-38 '62.

Kinetics of the reaction of benzene realkylation with diisopropyl-benzenes on aluminosilicate catalyst. Ibid.:39-51

Thermodynamic calculation of the dealkylation reaction of diisopropyl-benzenes in the gas phase. Ibid.:56-62

Kinetics of the dealkylation of diisopropyl-benzene in the presence of an aluminosilicate catalyst. Ibid.:63-76

Kinetics of coking on an aluminosilicate catalyst in the dealkylation of diisopropyl-benzenes. Ibid.:77-79 (MIRA 17:3)



PANCHENKOV, G.M.; KOLESNIKOV, I.M.; KOLESNIKOV, G.M.; TSAGANKHUU, B.

Kinetics of reducing the activity of an aluminosilicate catalyst.  
Trudy MINKHIGP no.37:80-85 '62.

(MIRA 17:3)

EST AND END CORRECT										PROCESSING AND PROPERTY NOTES										REQ AND CTR CHOOSE									
<span style="position: absolute; top: 10px; left: 10px; font-size: 2em;">m</span> <span style="position: absolute; top: 10px; right: 10px; font-size: 2em;">3</span> <div style="position: absolute; top: 350px; left: 250px; width: 80%; text-align: justify;"> <p>*Geometry of Mechanical Twins (Crystal) Formation of Tin and Zinc. O. Kolesnikov (<i>Physical. E. Sorjetunov</i>, 1933, 2, 631-647).—[In German.] Geometrical considerations indicate that twinning in tin and in zinc is not attributable, as in the case of <math>\alpha</math>-iron, to a pure displacement of the lattice junctions. A rotational displacement is required in addition.—J. S. G. T.</p> </div>																													
ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION																													
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MAY 1964										MAY 1964										MAY 1964									

KOLESNIKOV, G. N.

ARKHAROV, V. I., KOLESNIKOV, G. N. AND NEMNOV, S. A.

C.A. Vol. 38, Nov. 20 & Indexes, 1944

Stability of gas-chromized Carbon Steel Against Corrosion in Sulfur-Containing Media", V. I. Arkharov, G. N. Kolesnikov and S. A. Nemnov. J. Applied Chem. (U.S.S.R.) 16, No. 11/12, 405-12 (1943) ; cf. C.A. 38, 26029

Coatings of the  $\text{Cr}$  carbide type obtained on steel contg. 0.3% C by gas-chromizing were tested for corrosion in aq. solns. of  $\text{H}_2\text{SO}_4$  and in S-contg. atm. at elevated temps., in comparison with samples of high-Cr steel, mild steel, Armco iron, steel V2A and electrolytic Cr. The gas-chromized steel was superior to all other materials under the test conditions.

ARKHAROV, V. I.; KOLESNIKOV, G. N.; NEMNOV, S. A.

"Gas Chromatization of Iron and Steel Products"

"Texco" Files ITEIN, 3rd Series (The Struggle against Corrosion) No.210/10, 1943.

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Mechanical Properties of Gas Chrome Plating

Trudy IMM UFAN, 2nd Edition, 51, 1944

AVERKIYEV, V. S.; KOLESNIKOV, G. N.; PAVLOV, V. A.; YAKUTOVICH, M.V.

Plastic Deformation and Destruction of Polycrystalline Metals during Elongation.

I Apparatus for the Elongation of Wires in a Wide Range of Temperatures and of Deformation Rates.

ZhTF 16,<sup>(12.11)</sup> 1349, 1946

KOLESNIKOV, G. N.; RYBALKO, F. P.; YAKUTOVICH, M. V.

Simple Elastic Dynamometer for a Torsion Machine

Zavod Labor. No. 13, 1947

KOLESNIKOV, G. N.

PA 18/49T92

USSR/Metals  
Steel, Silicon  
Stress Analysis

Nov 48

"Expansion of Polycrystalline Silicon Iron  
(4.2% Si) Within the Temperature Range -195°  
to 800° C," G. N. Kolesnikov, E. S. Yakovleva,  
M. V. Yakutovich, Inst Phys of Metals, Ural  
Affiliate, Acad Sci USSR, Sverdlovsk, 7 pp

"Zhar Tekh Fiz" Vol XVII, No 11, 1449-55

Expansion diagram of silicon iron shows low  
and high temperature types. Describes in detail  
state of diagram for various temperatures.

Adduces temperature relationship, resistance to

18/49T92

USSR/Metals (Contd)

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deformation, time deformation, proportional elongation,  
and sum of proportional and quasi-proportional  
elongations. Refutes the expression, suggested by V.  
V. Vitman, and V. A. Stepanov for relation of limits  
of yield to absolute temperature in wide interval of  
temperatures. Submitted 23 Apr 48.

18/49T92



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100																									
11																									
<p><b>Plastic Deformation and Fracture of Polycrystalline Metals Under Tensile Stress. II. Form of Stress Diagrams of Pure Metals. (In Russian.) G. N. Kolesnikov and others. Zhurnal Tekhnicheskoi Fiziki (Journal of Technical Physics), v. 19, Jan. 1949, p. 62-75.</b></p> <p>The above was investigated for eight pure metals (Pb, Sn, Cd, Zn, Mg, Pb, Al, Cu, and <math>\alpha</math>-Fe) at different temperatures (78°K-0.8°C.) below the melting point or temperature of phase transformation. Shows that stress diagrams of pure metals may be divided into two basic types: "high-temperature" and "low-temperature."</p>																									
<p>ASM-11A METALLURGICAL LITERATURE CLASSIFICATION</p>																									
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1ST AND 2ND CODES		3RD AND 4TH CODES	
PROCESS AND PROPERTIES INDEX			
13			
<p><b>Mechanical Properties of a Silver-Copper Alloy (7.8% Cu) Under Tensile Stress. (In Russian.) G. N. Kolesnikov, E. S. Yakovleva, and M. V. Yakutovich. Zhurnal Tekhnicheskoi Fiziki (Journal of Technical Physics), v. 12, Mar. 1949, p. 347-354.</b></p> <p>Tensile-strength diagrams from 20 to 100°C. were obtained for the above in the hardened and aged conditions. Existence of "low-temperature" and "high-temperature" types of tensile-strength diagrams is indicated. Tensile-strength diagrams for the hardened condition are shown to have "saw-tooth" shape at temperatures of 150°C. and above. For both types of stress, dependence of resistance to deformation, yield strength, and elongation on temperature are indicated. Data are charted.</p>			
<p>13-11A METALLURGICAL LITERATURE CLASSIFICATION</p>			

*Phys. Metals, Used off. AS USSR*

AVERKIN, V.S.; KOLESHNIKOV, G.N.; MOISEYEV, A.I.; YAKUTOVICH, M.V.

Arrangement for testing stress relaxation during tension.  
Trudy Inst.fiz.met.UFAN SSSR no.19:71-94 '58. (MIRA 12:2)  
(Strain gauge) (Deformations (Mechanics)--Testing)

KOLESHNIKOV, G.N.; MOISEYEV, A.I.; YAKUTOVICH, M.V.

Effect of small alloying element additions on stress relaxation  
in iron-chromium-nickel alloys. Trudy Inst.fiz.met.UFAN SSSR  
no.19:95-100 '58. (MIRA 12:2)  
(Iron-chromium-nickel alloys--Testing) (Strains and stresses)